

WHAT IS CLAIMED IS:

1. A thermal head applying thermal activation energy to a print medium including a thermally active component by supplying power, comprising:

a heat releasing substrate releasing a heat,

a heat storage layer formed on the heat releasing substrate,

an array of heat generating elements formed on the heat storage layer and including a plurality of heat generating resistances and electrodes supplying power to the individual heat generating resistances,

a protective layer covering the top surfaces of the array of heat generating elements, and

an anti-adherence layers against thermally-active-component formed on the protective layer,

wherein two substantially parallel lines of the anti-adherence layers against thermally-active-component are formed on the protective layer as sandwiching a protective layer portion directly above the heat-generating element array.

2. A thermal head according to claim 1, wherein the anti-adherence layer against thermally-active-component comprises a resin layer of low surface energy.

3. A thermal head according to claim 2, wherein the resin layer of low surface energy has a pencil hardness in the range of 2B to 5B.

4. A thermal head according to claim 2, wherein the resin layer of low surface energy comprises a silicone resin or fluorine resin.

5. A thermal head according to claim 2, wherein the resin layer of low surface energy comprises a fluorine resin layer containing a minor amount of powder of Si-based, Ti-based or Ta-based oxide or nitride film or complex film of these compounds.

6. A thermal head according to claim 2, wherein the resin layer of low surface energy comprises a fluorine resin containing a minor amount of metal element or carbon.

7. A thermal head according to claim 1, wherein the anti-adherence layer against thermally-active-component is composed to satisfy a relation:

$T \leq W/100$, where T denotes a thickness of the anti-adherence layer against thermally-active-component and W denotes a gap between two lines of anti-adherence layers against thermally-active-component.

8. A thermal head according to claim 1, wherein the two lines of anti-adherence layers against thermally-active-component are tapered at opposite faces thereof.

9. A thermal head according to claim 1, in a case where the heat-generating element array has a convex or mesa-like section, the anti-adherence layer against

thermally-active-component is formed in a manner that a top surface of the anti-adherence layer is lower than a surface directly above the heat-generating element array.

10. A thermal head according to claim 1, wherein the anti-adherence layer against thermally-active-component is formed by applying a liquid resin material onto the protective layer.

11. A thermal head according to claim 1, wherein the anti-adherence layer against thermally-active-component is affixed to the protective layer via an adhesive layer.

12. A thermal activation device for thermally active sheet at least comprising:

activating heating means for activating by heating a thermally active layer of a thermally active sheet formed with the thermally active layer at least on one side of a sheet-like substrate thereof,

conveyance means for conveying the thermally active sheet in a predetermined direction, and

pressure means for pressing the thermally active sheet against the activating heating means,

wherein the thermal head according to claim 1 is employed as the activating heating means.

13. A printer assembly comprising the thermal activation device for thermally active sheet according to claim 12.

14. A printer assembly according to claim 13, wherein the thermally active sheet is formed with a heat-sensitive color developing layer.